2008 Traffic Conference for Mobility & Safety











NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

Division of Bicycle and Pedestrian Transportation

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DBPT Online Information Resource







DBPT Online: Projects & Engineering







DBPT Online: Planning









DBPT Online: Safety Education





DBPT Online: Safety & Laws









DBPT Online: Maps & Signing









DBPT Online: Safe Routes to School







What We Do:



- First established as the NC Bicycle Program in 1974 with just one staff member and no dedicated budget, the Division of Bicycle and Pedestrian Transportation (DBPT) has grown to a staff of ten with a budget of \$10 million annually.
- In the early years, efforts were mainly focused on the development of safety education programs and the designation and mapping of cross-state bicycle routes. While these are still important aspects of our program, activities now encompass a much broader range of bicycle and pedestrian planning, engineering, programming and project administration.
- Consisting of planners, engineers and support staff, DBPT works closely with other units of NCDOT and other state government agencies as well as regional and municipal staffs throughout the state. DBPT plays a role in revising DOT policies, guidelines and manuals that impact bicycle and pedestrian accommodations; participates in resolving complex bicycle and pedestrian design issues on major highway projects; and provides training and technical support to other DOT planning and design units. As a result, the incorporation of bicycle and pedestrian elements into the design and construction of highway projects on a more routine basis has provided many miles of improved facilities and is a cost-effective way to increase transportation options.

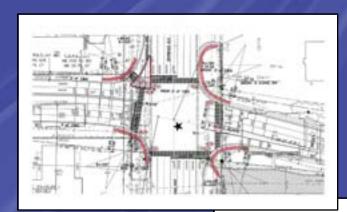


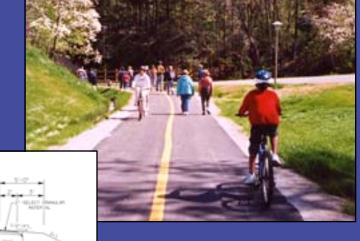


What We Do: Engineering



The Division's Engineering Unit consists of a supervisor and two design engineers. The unit prepares plans for bicycle and pedestrian construction projects scheduled in the Transportation Improvement Program. In addition, the engineering unit oversees implementation of TIP projects from the initial feasibility study through each phase of preconstruction. Using the latest in design technology and equipment, the engineering unit prepares plans, profiles, cross-sections, specifications and estimates for complex on-road and off-road bicycle facility projects. The unit also reviews and approves greenway and pedestrian design plans prepared by localities.









What We Do: Planning



The Division's Planning Unit consists of a program manager, planner II, and planner I. The Planning Unit focuses on a variety of initiatives to enhance bicycling and walking as viable transportation options. Activities include administering the development of local comprehensive bicycle and pedestrian plans; selecting and scheduling new bicycle and pedestrian projects for the Transportation Improvement Program; providing technical assistance to localities; researching and analyzing data; and coordinating with the Division of Highways to identify bicycle and pedestrian accommodations that may be needed as incidental elements of planned roadway improvement projects throughout the state.











What We Do: Education



Long known as a national leader in bicycle safety education, the Division now fosters a broad range of both bicycle and pedestrian safety initiatives. Through the NC State Institute for Transportation Research and Education and UNC Highway Safety Research Center, DBPT develops and implements new safety programs; creates and distributes materials; provides support to community initiatives; trains teachers; conducts media awareness campaigns; and promotes safe bicycling and walking. In addition, DBPT conducts bicycle and pedestrian planning and design workshops for state and local engineers, planners and municipal officals.





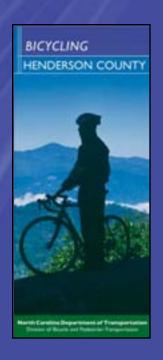




What We Do: Mapping & Signing

The Division published its first bicycle map in 1976, showing the 700-mile Mountains to Sea route from Murphy to Manteo. Since that time, the system of mapped and signed cross-state, urban, local and regional bike routes has grown to cover more than 5,000 miles and is the largest mapped and signed bike route system in the USA.













What We Do: Safe Routes to School

The NC Safe Routes to School Program (SRTS) has one coordinator position that is mandated by federal legislation and is supported 100% by federal funds. SRTS is a national and international movement to enable and encourage children to walk and bicycle to school. SRTS programs are comprehensive efforts that look at ways to make walking and bicycling to school a safer and more appealing transportation alternative.

The Safe Routes to School Program was initiated by the passage of SAFETEA-LU in 2005. NCDOT will receive approximately \$15 million for this program over five years. These funds may be used to improve bike/ped infrastructure near schools and to develop and implement education, enforcement and encouragement programs.









What We Do: Funding



- The Bicycle and Pedestrian TIP Process
 - Proposed improvements for bicycling and walking may be included in the Transportation Improvement Program (TIP) as an incidental part of the construction of a highway project or, where no highway project is programmed, as an independent bicycle project. Bicycle and pedestrian projects follow essentially the same TIP process as do highway projects.
- ☐ Funding Sources for Bicycle and Pedestrian Needs
- Federal Funds
 - Surface Transportation Program (STP) the primary source of funding for independent bicycle and pedestrian projects is STP Enhancement Funding.
 - Congestion Mitigation and Air Quality (CMAQ) funds can be used for the construction of pedestrian and bicycle transportation facilities.









Multi-Use Path has No Crosswalk



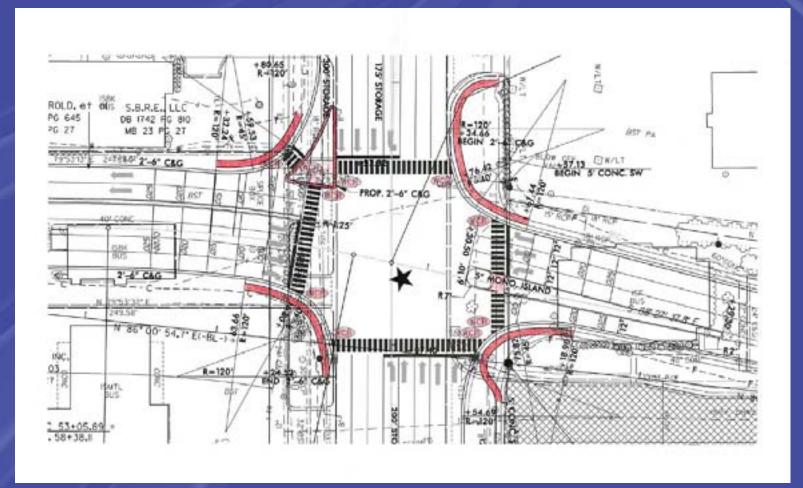
No Crosswalk



















No Crosswalk



Improvements









No Crosswalk & Drainage



Improvements







Bell Folk Road







Improper Crossing

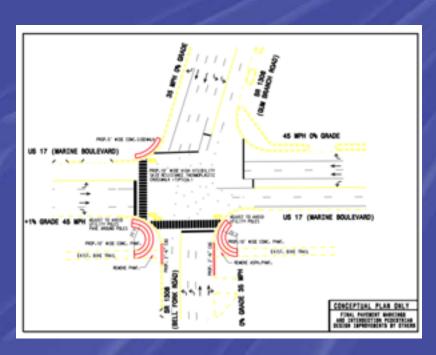






Aerial: Bell Folk Road





Preliminary Drawings







Bell Folk Road





Bell Folk Road



Improvements to Curb and Gutter





US 64 Apex High School







US 64: Existing 160ft Crosswalk



US 64 Apex High School







US 64: Existing Crosswalk





US 64 Apex High School





US 64: After Intersection Improvements







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